

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTM96600-65VV.V-R2

June 1, 2020

## GTM96600-65VV.V-R2

### Information

Model Number

GTM96600-65VV.V-R2

Description

GTM96600-65VV.V-R2, ITE / Medical Power Supply/Class 2/Household Power Supply, 60601-1-4th Ed. , Wall Plug-in+Desktop Combination, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, IEC 60320/C8 AC Inlet connector, Output Rating: 65 Watts, Power rating with convection cooling (W) , 5-54V in 0.1V increments, Approvals: ETL 60950; Korea (41V-54V Only); EAC; CE; China RoHS; Double Insulation; cETLus 60601-1; FCC; PSE; PSE; PSE; Level VI; RoHS; Ukraine; VCCI; WEEE; S-Mark IEC/EN 60601-1; CB 60601-1; IP40; CB 62368; Taiwan BSMI; Morocco;

Model Picture



Agency Documents

<http://www.globtek.info/certs/GTM96600-TZ/>

CE EC-Declaration

[https://www.globtek.com/pdf/ec\\_declaration/a00a000000FifXUEAZ](https://www.globtek.com/pdf/ec_declaration/a00a000000FifXUEAZ)

RoHS/RoHS2 Declaration

[https://www.globtek.com/pdf/rohs\\_cert/a00a000000FifXUEAZ](https://www.globtek.com/pdf/rohs_cert/a00a000000FifXUEAZ)

REACH Declaration

[https://www.globtek.com/pdf/iso\\_certificates/REACH.pdf](https://www.globtek.com/pdf/iso_certificates/REACH.pdf)

Conflict Minerals Declaration

<https://www.globtek.com/pdf/conflict-minerals.pdf>

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**MODEL PARAMETERS**

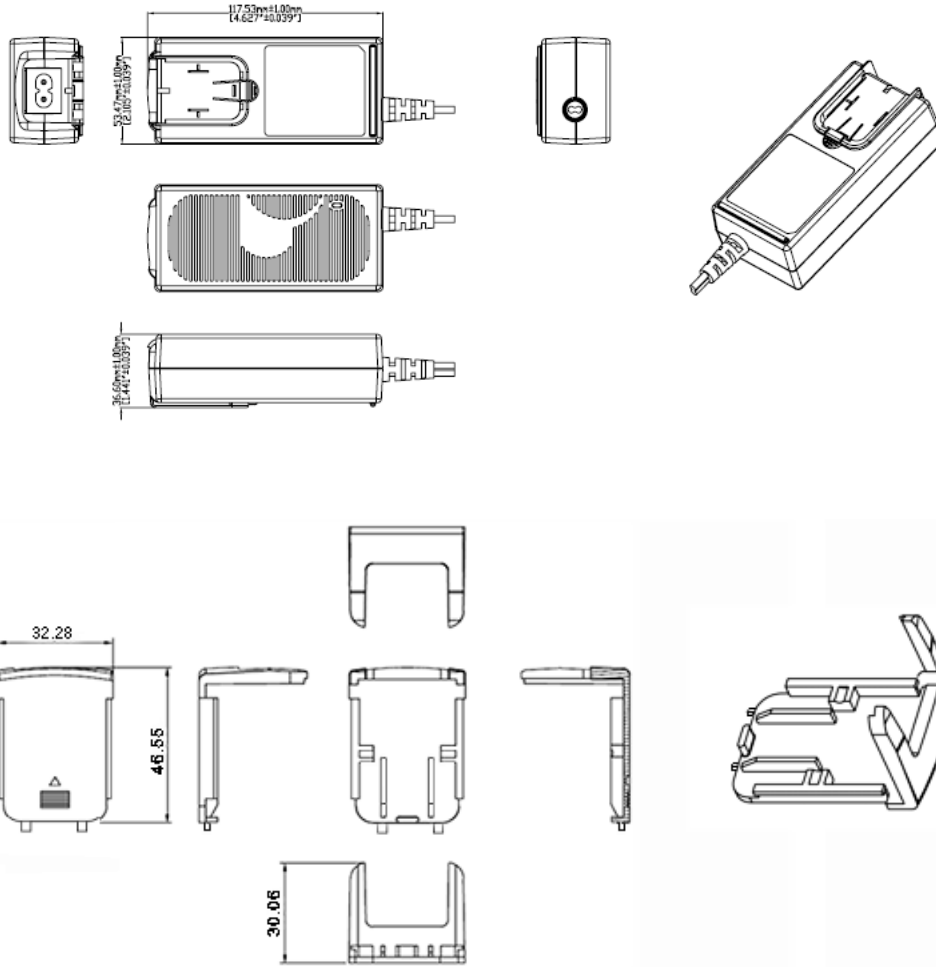
|                    |                                                                     |
|--------------------|---------------------------------------------------------------------|
| Type               | Wall Plug-in+Desktop Combination                                    |
| Technology         | Regulated Switchmode AC-DC Power Supply AC Adaptor                  |
| Category           | ITE / Medical Power Supply/Class 2/Household Power Supply           |
| Input Voltage      | 100-240V~, 50-60 Hz                                                 |
| I/P Amps (A)       | 1.5 A                                                               |
| Wattage (W)        | 65.0                                                                |
| Vout Range (V)     | 5-54                                                                |
| Efficiency Level   | USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782 |
| Ingress Protection | IP40, IP54 Option available                                         |
| Size (mm)          | 117.53*53.47*36.6                                                   |

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**ENCLOSURE**



Unit shipped without an installed input plug.  
 "Desktop insert" installed.

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## RATING TABLE

| Model Number     | Voltage | Amps(A) | Watts(W) | RFQ                 |
|------------------|---------|---------|----------|---------------------|
| GTM96600-6512-R2 | 12 V    | 5.41    | 64.92    | <a href="#">RFQ</a> |
| GTM96600-6515-R2 | 15 V    | 4.33    | 64.95    | <a href="#">RFQ</a> |
| GTM96600-6518-R2 | 18 V    | 3.61    | 64.98    | <a href="#">RFQ</a> |
| GTM96600-6520-R2 | 20 V    | 3.25    | 65.00    | <a href="#">RFQ</a> |
| GTM96600-6524-R2 | 24 V    | 2.708   | 64.99    | <a href="#">RFQ</a> |
| GTM96600-6530-R2 | 30 V    | 2.166   | 64.98    | <a href="#">RFQ</a> |
| GTM96600-6548-R2 | 48 V    | 1.35    | 64.80    | <a href="#">RFQ</a> |

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## SPECIFICATIONS

### Input

|                      |                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage:       | Specified: 90-264VAC, Nameplate: 100-240VAC<br>100% rated load current for 90-264VAC<br>85% rated load current for 85-264VAC<br>100% rated load current for 110-370VDC |
| Input Frequency:     | Specified: 47-63Hz, Nameplate: 50-60Hz                                                                                                                                 |
| No Load Input Power: | <75mW @ 230VAC (EU CoC Tier 2 compliant) for ≤ 49W rating<br><150mW @ 230VAC (EU CoC Tier 2 compliant) for > 49W rating                                                |
| Inrush Current:      | 30A/60A max. (cold start @ 115V/230VAC)                                                                                                                                |
| Efficiency:          | DoE Level VI and EU CoC Tier 2 compliant                                                                                                                               |

### Output

|                     |                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Turn-on Delay:      | 1 second max. @ 115VAC and full load                                                                                             |
| Output Regulation:  | ± 5% (measured at output connector)                                                                                              |
| Line Regulation:    | ± 0.5% typ. (measured at output connector)                                                                                       |
| Ripple:             | 1% or 100mV, whichever is greater (using a 47µF low-ESR cap + 0.1µF ceramic capacitor, measured @ 20MHz BW, at output connector) |
| Transient Response: | 5% max. deviation, 1ms typ. recovery time (with 40% to 70% load step)                                                            |
| Hold-up Time:       | 8ms typ. (nominal input voltage and full load)                                                                                   |
| Power Indicator:    | Green LED                                                                                                                        |

### Protections

|                           |                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Input Protection:         | MOV transient suppressor, input line fusing                                                                                               |
| Over-Current Protection:  | 110 - 160% of rated output current, auto-restart, current limit range determined by normal output power rating, not de-rated power rating |
| Short-Circuit Protection: | Auto-restart                                                                                                                              |
| Over-Voltage Protection:  | 110 - 130%, latched off, cycle AC to reset                                                                                                |

### Environmental

|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| MTBF:                  | 1,500,000 hours @ 25°C ambient, full load (Telcordia SR-332, Issue 3) |
| Operating Temperature: | -20°C to 40°C (full load)                                             |
| Storage Temperature:   | -30°C to 80°C                                                         |
| Humidity:              | 0% to 95% relative humidity, non-condensing                           |
| Altitude:              | 5000m                                                                 |
| Cooling:               | Convection                                                            |

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|                                          |                                                                                                                                                                                                                                                                        |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RoHS:                                    | Complies with EU 2011/65/EU and China SJ/T 11363-2006                                                                                                                                                                                                                  |
| Note 1:                                  | Regarding operating temperature<br>a. See below de-rating table for output power capability at alternate temperature<br>b. Extended low-end temperature range available as a custom option                                                                             |
| <b>Safety</b>                            |                                                                                                                                                                                                                                                                        |
| Dielectric Withstand Voltage:            | 4000VAC or 5656VDC from input to output<br>3000VAC or 4242VDC from input to earth (Class I models only)                                                                                                                                                                |
| Touch Current:                           | Class I: 20 $\mu$ A max.<br>Class II: 85 $\mu$ A max.<br>Class II F2: 20 $\mu$ A max.                                                                                                                                                                                  |
| Earth Leakage Current                    | Class I: 300 $\mu$ A max.<br>Class II: N/A                                                                                                                                                                                                                             |
| Means of Protection:                     | 2 x MOPP                                                                                                                                                                                                                                                               |
| Output Isolation Options:                | Class I: C6 or C14 inlet (output negative tied to Earth contact)<br>Class II: C8 or C18 inlet<br>Class II FE: C6 or C14 inlet (output isolated from Earth contact)<br>Review isolation options by reading our white paper <a href="#">PSU Isolation and Identity</a> . |
| Earth Continuity Test:                   | < 0.1 $\Omega$ between earth pin (on AC inlet) and PCB termination point (Class I models only)                                                                                                                                                                         |
| Compliant Standards:                     | See listing at end of this datasheet for specific standards                                                                                                                                                                                                            |
| <b>EMC</b>                               |                                                                                                                                                                                                                                                                        |
| Applicable Standards:                    | Medical: EN60601-1-2, 4th edition<br>Emissions: EN55032, EN61000-6-3, EN61000-6-4, CISPR11, CISPR22<br>Immunity: EN55024, EN61000-6-1, EN61000-6-2                                                                                                                     |
| Conducted Emissions:                     | Class B, FCC Part 15, Class B (with resistive load)                                                                                                                                                                                                                    |
| Radiated Emissions:                      | Class B, FCC Part 15, Class B (with resistive load)                                                                                                                                                                                                                    |
| Harmonic Current Voltage Distortion:     | EN61000-3-2, Class A                                                                                                                                                                                                                                                   |
| Voltage Fluctuations/Flicker:            | EN61000-3-3                                                                                                                                                                                                                                                            |
| Electrostatic Discharge (ESD) Immunity:  | EN61000-4-2, 10KV contact discharge, 20KV air discharge                                                                                                                                                                                                                |
| Radiated RF Immunity:                    | EN61000-4-3, 10V/m 80-1000MHz, 3V/m 1-2.7GHz, 80% 1KHz AM                                                                                                                                                                                                              |
| EFT/Burst Immunity:                      | EN61000-4-4, 4KV/100kHz.                                                                                                                                                                                                                                               |
| Line Surge Immunity:                     | EN61000-4-5, 2KV differential, 4KV common-mode                                                                                                                                                                                                                         |
| Conducted RF Immunity:                   | EN61000-4-6, 3VRMS, 80% 1KHz AM                                                                                                                                                                                                                                        |
| Power Frequency Magnetic Field Immunity: | EN61000-4-8, 3A/m                                                                                                                                                                                                                                                      |
| Voltage Dip Immunity:                    | EN61000-4-11                                                                                                                                                                                                                                                           |
| <b>Enclosure</b>                         |                                                                                                                                                                                                                                                                        |
| Housing:                                 | High impact plastic, 94V0 polycarbonate, non-vented                                                                                                                                                                                                                    |
| AC Input Mechanical Options:             | Desktop: C6, C7, C14, or C18 inlet<br>Hybrid: Desktop inlet or changeable blades for wall-plug-in style, Class I or Class II input                                                                                                                                     |

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Markings:

Label and/or pad printed and/or laser-etched into case

## Special Options

1. Removal of LED (cost reduction or aesthetic purpose)
2. Custom cordsets, various cordage types, and connector types
3. Custom markings
4. Short term output surge capability for motors or other high peak current loads. (Available up to 120W for 1 second at nameplate voltage range. Higher levels possible for limited input voltage range, or larger allowed voltage dip.)
5. Reduced leakage current
6. Tightened output voltage tolerance
7. Reduced output ripple level
8. Reduced output power rating
9. High reliability PCB laminate with plated through-holes for IPC610 Class 2 compliance
10. Low temperature option, down to -40°C
11. Special housing and cordset colors
12. "Back EMF" upgrade, for motor loads and other high inductance applications with reverse energy flow requirements
13. Improved ingress protection (IP) rating

## Output Connectors

- Several output connector options are available with various output current ratings. GlobTek can supply 10A rated 2.1mm and 2.5mm style DC Power Jacks, to complement our 10A output rated 2.1mm and 2.5mm DC power plugs used on our output cordsets.
- Please visit our real-time listing of mating connector product offering:  
<https://en.globtek.com/news/high-current-coaxial-barrel-plug-jacks-for-high-wattage-power-supplies>

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## DERATING CURVE



+74C operation with an output power of 19.2W; and cold start at -40C



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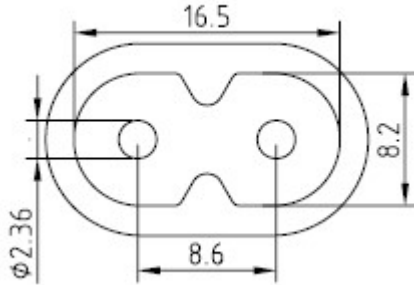
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**INPUT CONFIGURATION**

Description IEC 60320/C8 AC Inlet connector

[Blade Insertion Instructions](#)  
[R-Blade Style Instruction Video](#)



Mates with IEC 60320/C8 Plug

This series of Interchangeable Blade products may be used with Proprietary Interchangeable Blades as described below or with standard international power cords.

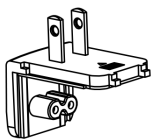
Optional INPUT BLADES: R-Socket: below are available blades configurations which are "not included" (unless stated above); may be purchased separately, packaged with power supply, or as a separate "R-KIT" if specified

1. Class II model NEMA 1-15P AC power plug with 2 prongs, R-NA-2(R)
2. Australian AS 3112 configuration: SAA 2 pins Class II, R-SAA-2(R)
3. UK BS 1363 configuration: UK 2 pins (dummy Ground) Class II, R-UK-2(R)
4. European CEE 7/16 configuration: Europlug 2 PINS, Class II, R-EU-2(R)
5. China GB 2099 configuration: 2 blades, Class II; CN P/N:R-CN-2(R)

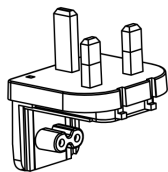
6. Desktop Insert

Kits

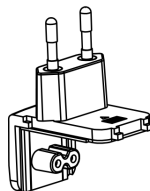
05. R-KIT: 1,2,3,4 above
06. R-KIT-INTL: 2,3,4 above



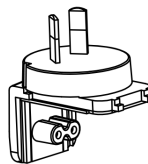
**UL 2P**  
P/N: R-NA-2(R)  
NORTH AMERICA  
JAPAN



**UK 2P**  
P/N: R-UK-2(R)  
UNITED KINGDOM  
HONG KONG  
SINGAPORE



**EU 2P**  
P/N: R-EU-2(R)  
EUROPE  
SOUTH AMERICA



**AUS 2P**  
P/N: R-SAA-2(R)  
AUSTRALIA

Standard Cordsets

**PROPRIETARY INFORMATION**

PROPRIETARY OF GLOBTEK, INC. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.

<http://en.globtek.com/datasheet/id/a00a000000fifXU>

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Below are standard cordsets which are "not included" (unless stated above); these may be purchased separately or packaged with the power supply. Contact your Sales Engineer if the style required is not shown below. Many more available in different lengths, colors or cable material.

[Standard International IEC 320/C7 Cordsets](#)

| Part Number                      | Country                                        | Plug       | Connector  | Length (mm) | Length (feet) |
|----------------------------------|------------------------------------------------|------------|------------|-------------|---------------|
| <a href="#">2094112M703(R)</a>   | Argentina (Type I)                             | IRAM 2063  | IEC 320/C7 | 2000        | 7             |
| <a href="#">5014112M703A(R)</a>  | Australian (Type I)                            | AS 3112    | IEC 320/C7 | 2000        | 7             |
| <a href="#">207B4111M8703(R)</a> | Brazil (Type N)                                | NBR14136   | IEC 320/C7 | 1800        | 6             |
| <a href="#">4533501M8703(R)</a>  | China (Type A)                                 | GB 2099.1  | IEC 320/C7 | 1830        | 6             |
| <a href="#">2074112M703A(R)</a>  | European (Type C)                              | CEE 7/16   | IEC 320/C7 | 2000        | 7             |
| <a href="#">2084111M8703(R)</a>  | India (Type M)                                 | BS 546     | IEC 320/C7 | 1800        | 6             |
| <a href="#">451J3401M8703(R)</a> | Japan (Type A)                                 | JIS 8303   | IEC 320/C7 | 1830        | 6             |
| <a href="#">2044112M703A(R)</a>  | Korea (Type C)                                 | KS C8305   | IEC 320/C7 | 2000        | 7             |
| <a href="#">4511116F703A(R)</a>  | N. American (Type A)                           | NEMA 1-15P | IEC 320/C7 | 1830        | 6             |
| <a href="#">4033401M8703A(R)</a> | Taiwan (Type A)                                | CNS690     | IEC 320/C7 | 1830        | 6             |
| <a href="#">6104112M703A(R)</a>  | UK, Hong Kong, Singapore, Gulf States (Type G) | BS1363     | IEC 320/C7 | 2000        | 7             |

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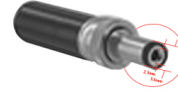
**OUTPUT CONFIGURATION**

Common output connector options:


 L Type (Coaxial  
5.5x2.5mm plug)

 C Type (Coaxial  
5.5x2.1mm plug)

 K Type (Coaxial  
3.5x1.3mm plug)

 LL Type (5.5x2.5mm  
Locking 760k type)

 CL Type (5.5x2.1mm  
Locking S761k type)

 ML2 Type (Molex  
housing 43025-0200)

 YL3 Type  
(KPPX-3P)


YL4 Type (KPPX-4P)


 EJ1/2/3/4/5 (EIAJ  
RC-5320A type  
connectors)

 MSB Type (Micro  
USB)

 USBC Type (USB  
Type C)

 Inquire for custom  
design

 For a comprehensive list of options, [click here](#)







Contact GlobTek for your specific requirements or custom solutions.

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## Approvals

| Logo                                                                                | Description                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Taiwan BSMI GTM96600-R2 T2 R32282 GTM96600-6048-R2;<br><a href="http://www.bsmi.gov.tw/wSite/ct?xItem=4072&amp;ctNode=8167=2">http://www.bsmi.gov.tw/wSite/ct?xItem=4072&amp;ctNode=8167=2</a>                                                              |
| No Logo Applicable                                                                  | CB for IEC 60601-1:2005+A1                                                                                                                                                                                                                                  |
| No Logo Applicable                                                                  | CB for IEC 62368-1:2014 (Second Edition)                                                                                                                                                                                                                    |
|   | Test standard:<br>EN 55032:2012+AC:2013<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 55024:2010<br>EN 60601-1-2:2015                                                                                                                                     |
|  | CHINA SJ/T 11364-2014, China RoHS Chart: <a href="http://en.globtek.com/globtek-rohs.php">http://en.globtek.com/globtek-rohs.php</a>                                                                                                                        |
|  | Declaration ДС № EAЭC N RU Д-US.KA01.B.10453_19 Custom Union of Russia, Belarus and Kazakhstan<br><a href="http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration">http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration</a> |
|  | Medical Electrical Equipment - Part 1: General Requirements For Basic Safety And Essential Performance [AAMI ES60601-1:2005 +A1]                                                                                                                            |
|  | Information Technology Equipment Safety Part 1: General Requirements >Valid without technical revision:01Jan2022< [UL 60950-1:2007 Ed.2 +R:14Oct2014]                                                                                                       |

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|                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                       | Compliance of this power supply with FCC Part 15, Class B has been demonstrated with a standard output load. The FCC law stipulates that system-level testing is required to demonstrate compliance with the FCC emission limits with the actual system load.                                                                                                        |
|                                                                                                                                                                                       | Indoor Use Only - Mark is on the label or Molded in the case                                                                                                                                                                                                                                                                                                         |
| IP40                                                                                                                                                                                                                                                                   | Ingress Protection: ?IP40 to IEC60529:2001 Protection against granular foreign bodies                                                                                                                                                                                                                                                                                |
| <br>GlobTek, Inc.                                                                                                                                                                     | JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations:<br><a href="http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/">http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/</a> |
| <br>GlobTek, Inc.                                                                                                                                                                     | JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC15?30V]. Please reference the following website for guidelines on PSE regulations:<br><a href="http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/">http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/</a>    |
| <br>GlobTek, Inc.                                                                                                                                                                   | JAPAN TUV R-PSE, Cert. No. JD 50313287, to J60950-1(H26) , J55022(H22),J3000(H25)[DC30?60V]. Please reference the following website for guidelines on PSE regulations:<br><a href="http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/">http://en.globtek.com/importing-ite-and-medical-power-supplies-ac-adaptors-to-japan/</a>    |
| <br>직류전원장치 AC/DC ADAPTER<br>KTC HU10499-19039A<br>전기용품안전관리법에 의한 표시<br>최저소비효율기준 만족 제품<br>모델명: GTM96600-6554-T2, R2<br>Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD<br>A/S Center:10-6221-6100 | Korea HU10499-19039A (for GTM96600-6x48-T2,R2(41V-54V))                                                                                                                                                                                                                                                                                                              |
| EFFICIENCY LEVEL                                                                                                                                                                    | Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)                                                                                                                                                           |
|                                                                                                                                                                                     | Morocco SDoC declaration<br><a href="http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/">http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/</a>                                                                                                                                                                                                    |
| RoHS                                                                                                                                                                                                                                                                   | Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) <a href="http://www.ce-mark.com/Rohs%20final.pdf">http://www.ce-mark.com/Rohs%20final.pdf</a>                                                                                                                                                                           |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Intertek</p>                                                                                        | S-Mark Certificate EN 60601-1:2006+A1+A12, EN 60601-1-11:2015                                                                                                                                                        |
|  <p>RoHS00015810107</p> <p>RoHS Symbol<br/>Serial NO.<br/>Class NO for production<br/>YEAR<br/>WEEK</p> | Serial Number Information                                                                                                                                                                                            |
|  <p>10276</p>                                                                                           | Ukraine UKRSepr (Document:<br><a href="http://www.globtek.com/html/iso_certificates/GT_Ukraine.pdf">www.globtek.com/html/iso_certificates/GT_Ukraine.pdf</a> )                                                       |
|                                                                                                         | Japan: Voluntary Control Council for Interference (VCCI)                                                                                                                                                             |
|                                                                                                        | WEEE: Complies with EU 2012/19/EU (<br><a href="http://ec.europa.eu/environment/waste/weee/index_en.htm">http://ec.europa.eu/environment/waste/weee/index_en.htm</a> )<br>Mark is on the label or Molded in the case |